

FIG. 1A

1 ggacctcgacgccaagaattcggcacgagggcgccggctccgggggacggacggcgccgctctgcgagggggtccgggtccaggtccggcgccggcgcgaggt 120
 240 gcgtgcggggcgccgaggggtccggacggacacacactcccggaagatcgctaccctccgggggtaaagagatcaccgacaagatcaccacgacgagatgatcaaa 240
 360 cgcctgaagatggtagtaaaacctttatggatatggatcaggactcagaagatgaaaaaacgacgagtatctcccactagcttgcatcttgcatctgaattcttctcaggaaacccaat 360
 480 aaagatgtgcgtctcctgtagcatgtgtgttggtgatatactttcgatctatgccccagaagctccatatacttcccataaacttaaggacataattttgtttattaccagacaa 480
 600 ttaaaaggtttggaggatacaaaaggtccacagtttaatatagatactttatttattagagaatttagcttgggttaaatcatataacatctgcttgaattggaagattgcaatgaatt 600
 720 tttattcagcttttagaactctcttctcagtgatcaacaatagccacataagaaggtaacaatgcacatgctagatttgatgagttctatcatcatggaaggtgatggagtactcaa 720
 840 gaattattgggtccattcttataacctcattcctgcacataagaacttaataaacagtccttgaccttgcaaaagtgctattgaaaagaacagtcacagactattgaggtatgcatt 840
 960 gccaatttttcaatcaagtcctggtgcgggaagatcatcagtaagtatttgtagaacatgtatttgatctgattcaggaacttttgcataagatcctcatttattattatccgtc 960
 1080 atgccacagcttgaattcaactaaagagcaatgatgagaagcgattagctgtgttgactctagctaaattgttggtccaaagattctgatttggcaacacagaaatcgctct 1080
 1200 ctttggcaatgtttcttgacgatttaatatattcatgttctgtgagattagaagtggaatttgcagtcattgtttaatgaatcacccagatttagcgaaggatctcacagaa 1200
 1320 tatttaaggttagatcacatgatccagaagaagctattcgatcatgtattgttactataataacagtcgcaagggacgtgacctggttagtaaatgatcagtcgttggcttcta 1320
 1440 agggaaagaacactggataaacggtgcgagtaagaaagaagctatgatgggtcgtgctcagctttataagaaatactgtcttcattgtagaaggaaggaagctgcagagaagtc 1440
 1560 r e r t l d k r w r v r k e a m m g l a q l y k k y c l h g e a g k e a a e k v agctggataaaggacaaacttctgcataatttattatcagaacagcattgacgacaaactgttggtagagaaaatcttctgctcagtatcttgtcccccaacctggaaacagagagaga 1560

FIG. 1B

404 S W I K D K L L H I Y Y Q N S I D D K L L V E K I F A Q Y L V P H N L E T E E R
 atgaaatgcttatacttatactagtttgatccaaatgctgtataaagctctcaacgaaatgtggaagtgtcagaacatgcttcggagccatgtacgcgaactattggattgcac 1680
 444 M K C L Y Y L Y A S L D P N A V K A L N E M W K C Q N M L R S H V R E L L D L H
 aagcagctacatcagaggtaactgttctgccatgtttcgaaactgatgaccatacgaagaatttgctgaccocgggaagcacagaattttgtgaagaaatttaaccaggttctc 1800
 484 K Q P T S E A N C S A M F G K L M T I A K N L P D P G K A Q D F V K K F N Q V L
 ggcgatgagaaacttcggtctcagttggattattattagcccaactgttctgcaaacagcagatattttgtgagagaatagccggaaacttgc aaatcctaagcaacca 1920
 524 G D D E K L R S Q L E L L I S P T C S C K Q A D I C V R E I A R K L A N P K Q P
 acaaatcctttctagagatggtcaaatcttctgttgaagaatcgcacctgtgcacattgattcagaagccataagtcactagtgaattgatgaataagtcataaggggacagca 2040
 564 T N P F L E M V K F L L E R I A P V H I D S E A I S A L V K L M N K S I E G T A
 gatgatgaagagggtgaagtcagatacagctatcogttcaggaactgaacttcttaagttctgtcttttacacatcctaccctgtccactctgcagagacatatgagtccttg 2160
 604 D D E E G V S P D T A I R S G L E L L K V L S F T H P T S F H S A E T Y E S L
 ttacagtccttaagaatgagagtgacaagtgacagaagctgtattcaaatcttttagaaatacaggtcacaataatagaacagacctccccagatacgcagaccttaattccatt 2280
 644 L Q C L R M E D D K V A E A A I Q I F R N T G H K I E T D L P Q I R S T L I P I
 ttacatcaaaaagcaaaaggggtactccacaccaagcaaaacagctgtgcactgtatacacgccatattcacaaaataaagaagtcacagcttgcacagatttttgagccactcagtagg 2400
 684 L H Q K A K R G T P H Q A K Q A V H C I H A I F T N K E V Q L A Q I F E P L S R
 agtctgaatgctgtgccagaacaactataactccattagtttccatttgccacatttctatgttagaccagatcagtttgcctcccaatgaaatctgtagtagcaaaattttatt 2520
 744 S L N A D V P E Q L I T P L V S L G H I S M L A P D Q F A S P M K S V V A N F I
 gtgaaagatctgtaatgaatgacaggtcaacaggtgaaagaatggaaaactgtgtctccagatgaagaggtttccctgaagtactagcaaaaggtacaggaatgaacttctgta 2640
 764 V K D L L M N D R S T G E K N G K L W S P D E E V S P E V L A K V Q A I K L L V
 aggtggctgttggtatgaaaacaaccagttcaaatccaccttcggtattatcagcgatgttggttagtgaggtgacctgacagagcaaaagaggtcagtaaatct 2760
 804 R W L L G M K N N Q S K S A N S T L R L L S A M L V S E G D L T E Q K R I S K S
 gatatgtctcgattagctgtgtgtagtccataatgaagttgtcaggaaacctgttaccatgaatattaccaccaagacagtttcagctctgtgcactgtgttattaatgat 2880
 844 D M S R L R L A A G S A I M K L A Q E P C V H E I I T P E Q F Q L C A L V I N D

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FIG. 1B CONT.-1

884 gagtggtaccaagtaaggcagatatatttgctcagaagctgataaaggcacttgtaagttactgtgccattggagtgatatggcgatctttgccttggtgccaaaagatcctgtgtaaggag 3000
 E C Y Q V R Q I F A Q K L H K A L V K L L L P L E Y M A I F A L C A K D ~~PEAK~~
 924 aagaagcacgcagacaaatgtttactgaaaaatatacagtaacaggaataacattaaagcagaatcctatggctactgagaaattattatcactgttgctgaatatgtagtcca 3120
~~RRRA~~ H A R Q C L L K N I S I R R E Y I K Q N P M A T E K L L S L L P E Y V V P
 964 tacatgattcacctgtagcccatgatccagattttacaagatcacaaagatgtgatcagcttcgtgatatacaaaagatgcctatggttcatgcttgaagtttaataacaaaagaatgaa 3240
 Y M I H L L A H D P D F T R S Q D V D Q L R D I K E C L W F M L E V L M T K N E
 1004 aacaatgccatgcctttatgaagaagatggcagagaacatcaagtttaaccagagatgccagctccagatgaatccaagacaaaatgaaaaactgtatacagtatgtgatgtgctctc 3360
 N N S H A F M K K M A E N I K L T R D A Q S P D E S ~~KTFNEKLV~~ T V C D V A L
 1044 tgtgtataaatagtaaaagtctttgtgcaatgcagattcaccaaggaccagctctcccaatgaaatttttacacaacctgaagaaagactctgttaacgataagagttatatattca 3480
 C V I N S K S A L C N A D S P K D P V L P M K F F T Q P E D K F C N D K S Y I S
 1084 gaagagaagaagtagtctgttaacaggaagccaaagctgtgagtagttagtgagtaataagcctttatcagcaacgggaaggaacacctatgttagaagcactggcactgag 3600
 E E T R V L L L T G K P K P A G V L G A V N K P L S A T G R K P Y V R S T G T E
 1124 actggaagcaatatgaattgaagctgaacccctcaaccgaaatgatcaaggaaacagagttcagaggcagagaactggagttagtgaaatgaagagaaccctgtgagg 3720
 T G S N I N V N S E L N P S T G N R S R E Q S S E A A E T G V S E N E N P V R
 1164 attatttcagtcacacctgaagaatattgaccagtaagaataaggaatttaattctgacaggctaccagggaacacatcagcagtaccgaggaagaaagaaacagtaacagca 3840
 I I S V T P V K N I D P V K N K E I N S D Q A T Q G N I S S D R G K K R T V T A
 1204 gctgggtgcagagaatatccacaaaaacagatgagaaagtagatgaatcgggacctccgccccttccaaacccagagaggagcgtcgaccacagttcgaatctcagggcaatgctacc 3960
 A G A E N I Q K T D E K V D E S G P P A ~~PSKPRRGRRP~~ K S E S Q G N A T
 1244 aaaaatgatctataaactattaaacaggaagagagctgcagtgggtcaggagagccctgggggtttggaagcaggtaatgccaaagcaccacccaaactgcaagatttagcc 4080
 K N D D L N K ~~PELNKGRN~~ R A A V G Q E S P G G L E A G N A K A P K L Q D L A
 1284 aaaaagcagcaccagcagaaagacaaattgacttacaaaggtaaaatgcatttgcaaggaggagaaaaatgaaggccaacacagacgaggtccagcttctgcaaaaaacttgattcaca 4200
 K K A A P A E R Q I D L Q R * SEQ ID NO:2
 4320 atgtccctgaacagaaaatgaagctcaattcagaacacacactctctgccttgaaaactaaagagactattacttcttttcacatgaccacaagtcctctgatggaaatgtacagcag
 4440 aaactcttgagagagaggctaaaagcaactctgttctcccttccctagacttttcttacgaaaagtcataataaaggcaaatgtcttaacacacttggttccagttcctgcctatctgg

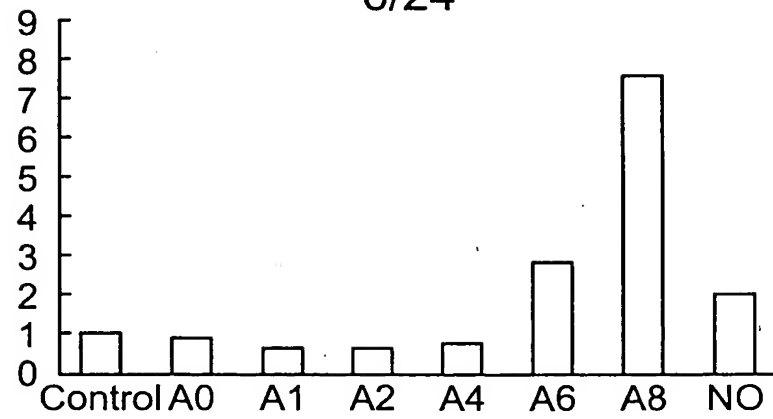
FIG. 1B CONT.-2

agtttaaatggttaatacaccattaatctccacgctgcagtttttattttaagaaagtacaagagtgtctttacactgcacactgaaaattccatccatttttagagccagggaattcccatg 4560
 ttacacagggaaaaaatagaaagtctactgaattaatttttaaaagaaagagatcagattaaatatttctttgtttttcccttttggaaccttttatgtataattctttctgcctgcctac 4680
 ttttctgcacaaaatgagatgtacagatttcgggtccctgctatgaaagtgatgtggtggaacaattttataaatgttgctttctgatttttatcagagtgagaaaaattaaatatttgatt 4800
 tgcaagtagtaaacagttcatattttgattttccctcattttagtttaataataatttgcaataaatgtacatatgtgtgtttgtttcataaagcatatcacctttaaaatggttttttactc 4920
 ctgtgattatgttggaatatttggaattttaagaggtaaagactgtccagcatttggttttataatgtttgtccacagattttttattaaatgtaaaaaatcaattttttaaaaaatagttg 5040
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 ttatttttagaaaactgtgcatacatattatgtttcttggcattgttcagcataggttaattgtgtgcactttatgtgtacacataatcatatttaagttttttgcataaaaataatgtct 5280
 tctagatgtcatggcagctcttttaactctttatcatatgctttcttgtgaatttttcatgttaagagctaaagtacataaacatgattacagtcacactctccattatctatatataaat 5400
 agtgactaagcctcaggtttttaattttgtgatacaaaaataacgaagcatgtaaagcctgattctggaggaacatgaaattttgtcttttctcatgtccagagttctatcctgccecca 5520
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 tgtgttctatttagagagagtttaaaagtctcttagcatcagacaaacttgatttcttaaggtttccagtgtgtcaccacaacaaaagtgcatttgatagggacctttgtctcttccctccctt 6120
 gattaattgcccggcatcacagtttactagattaccaagtgttacatcatattaaataaaatgtagcagaaccatctgcataatataattcctgttttagattttttgcaggagagaaagtta 6240
 aaaggatttgctccttgatgatgtgaagtgcccaaccccaattttgtaacatgatgcgaagtgtctggcactaaaggaagcaagtaggggtgtggaagaccaagctgatgggggagggga 6360
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 gtgtgcacatgggtgaatttttaaaatttttttaaaaacttgaagcagaaccctgtgaattttgtgtaaatgacaagtgtaaaatcctaccataaaaatgtctaaaaatattgcactgtttca 6720
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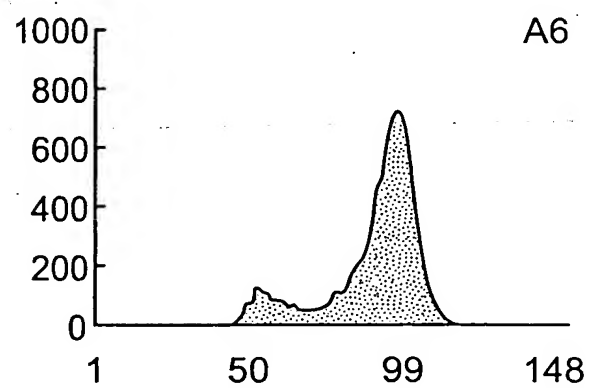
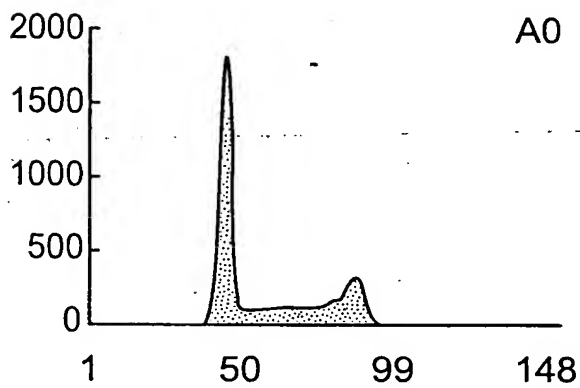
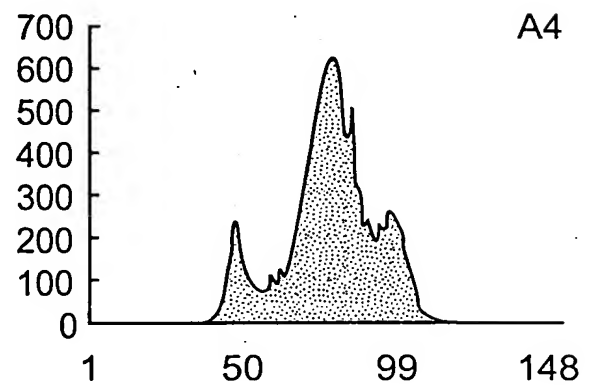
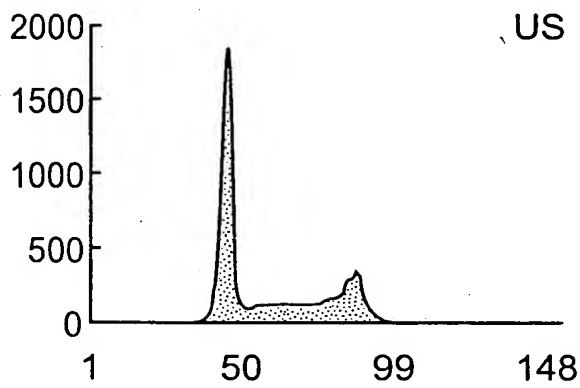
FIG. 1B CONT.-3

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Fold induction in SCC-S2 mRNA
expression



A0-A8: Aphidicolin treated and released (hour) cells
NO: Nocodazole arrested cells



To Fig. 2 Cont.

To Fig. 2 Cont.

FIG. 2

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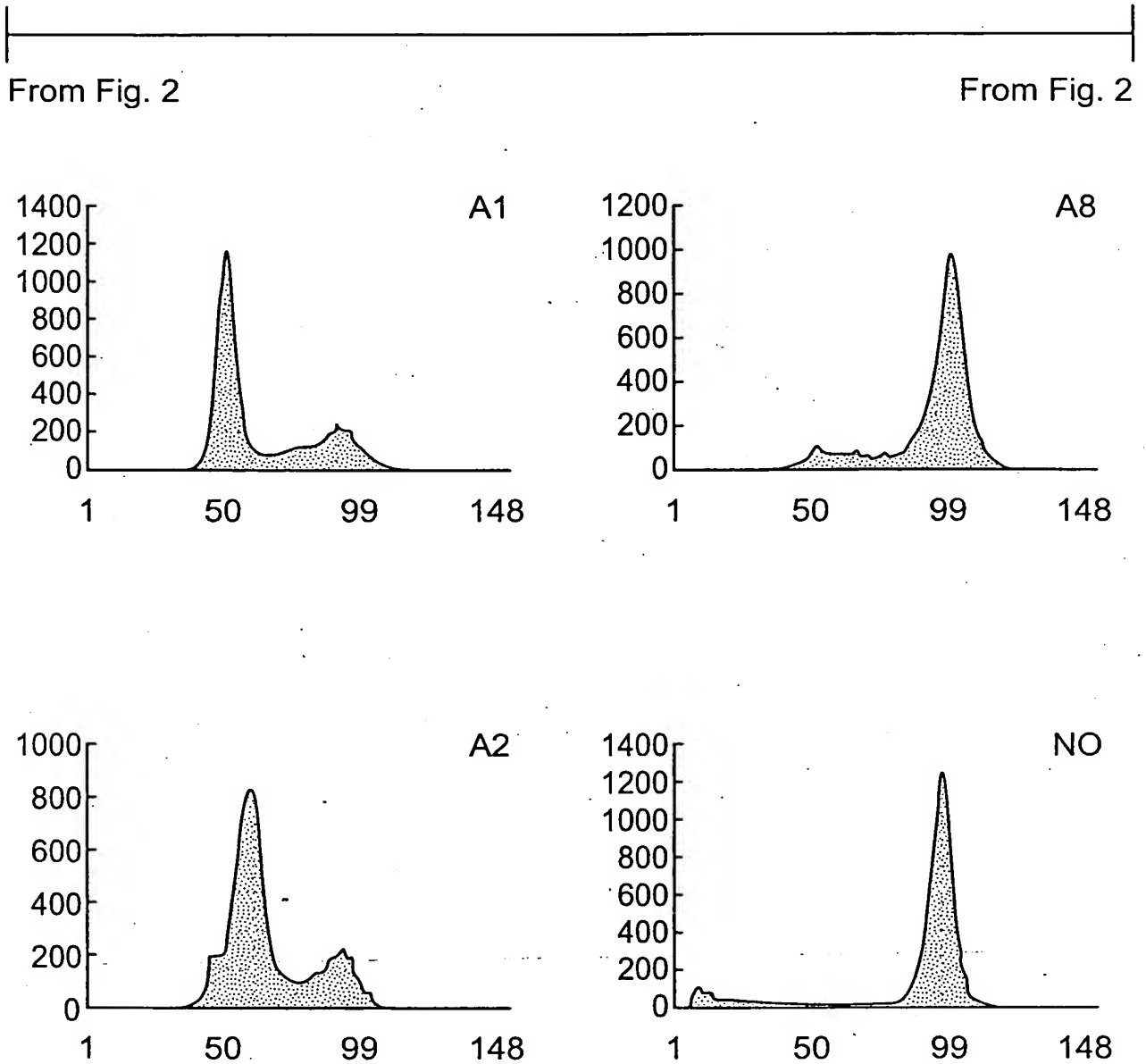


FIG. 2 Cont.

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FIG. 3A

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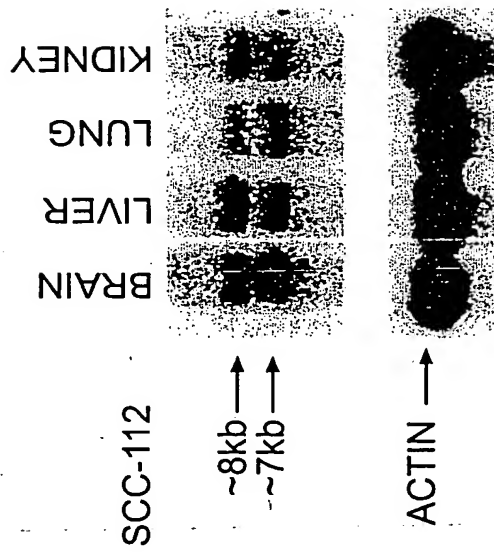


FIG. 3B

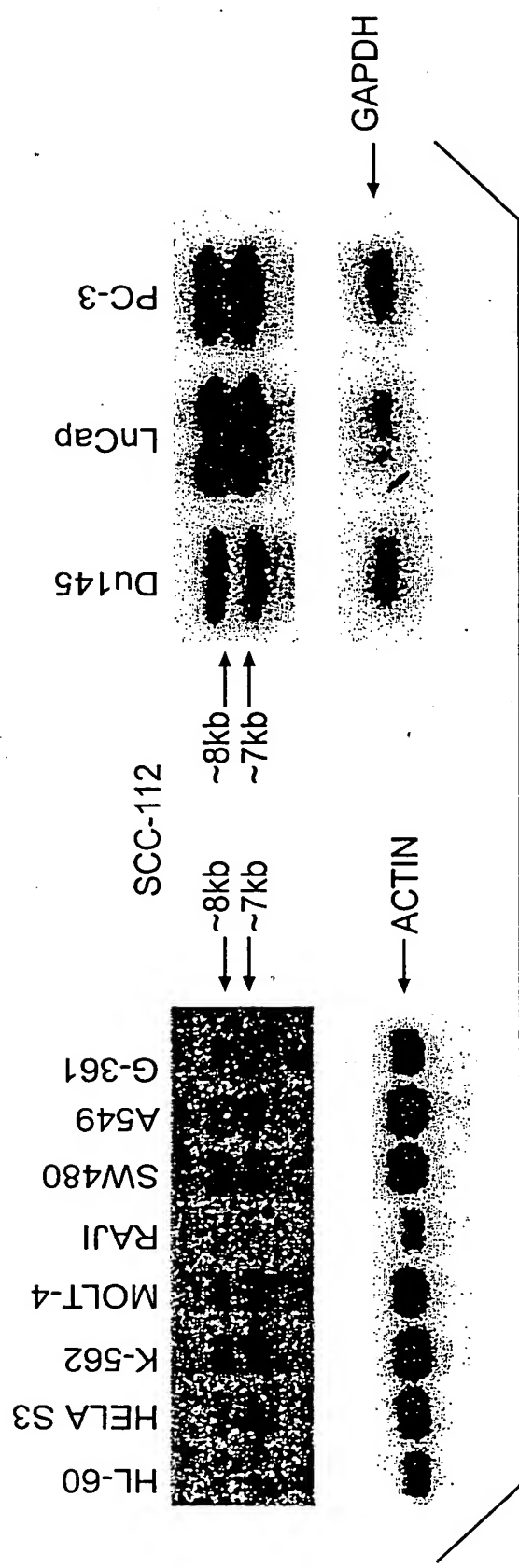


FIG. 3C

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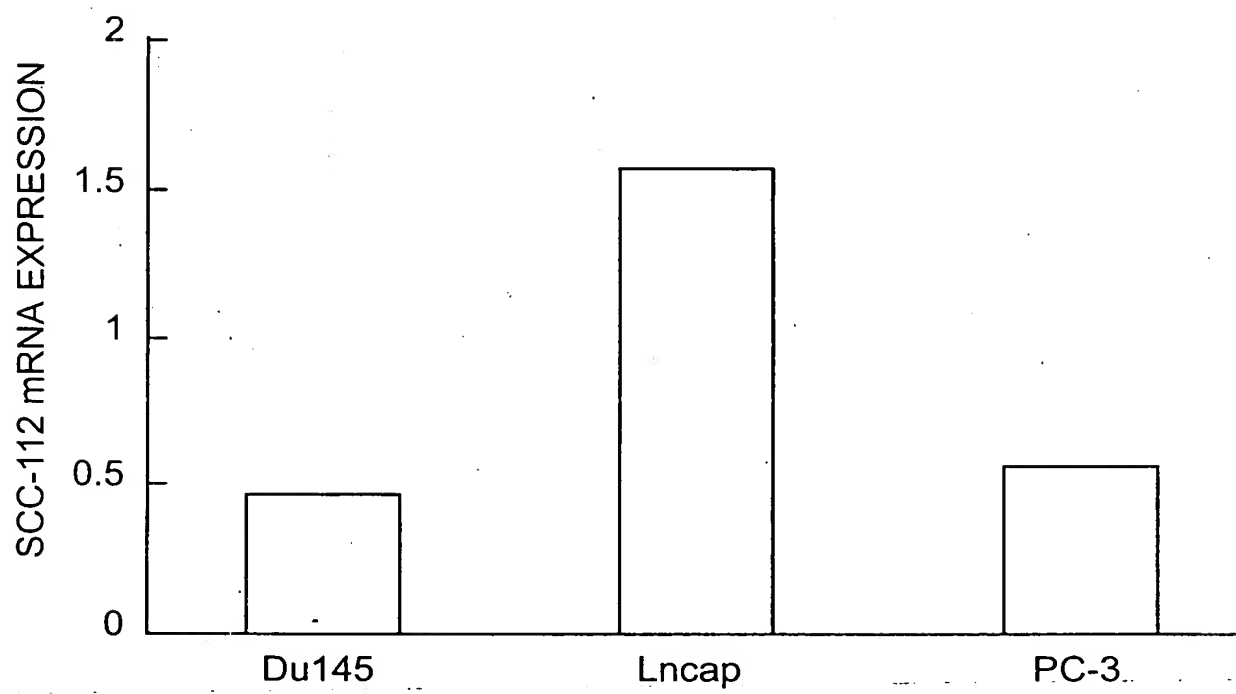


FIG. 4

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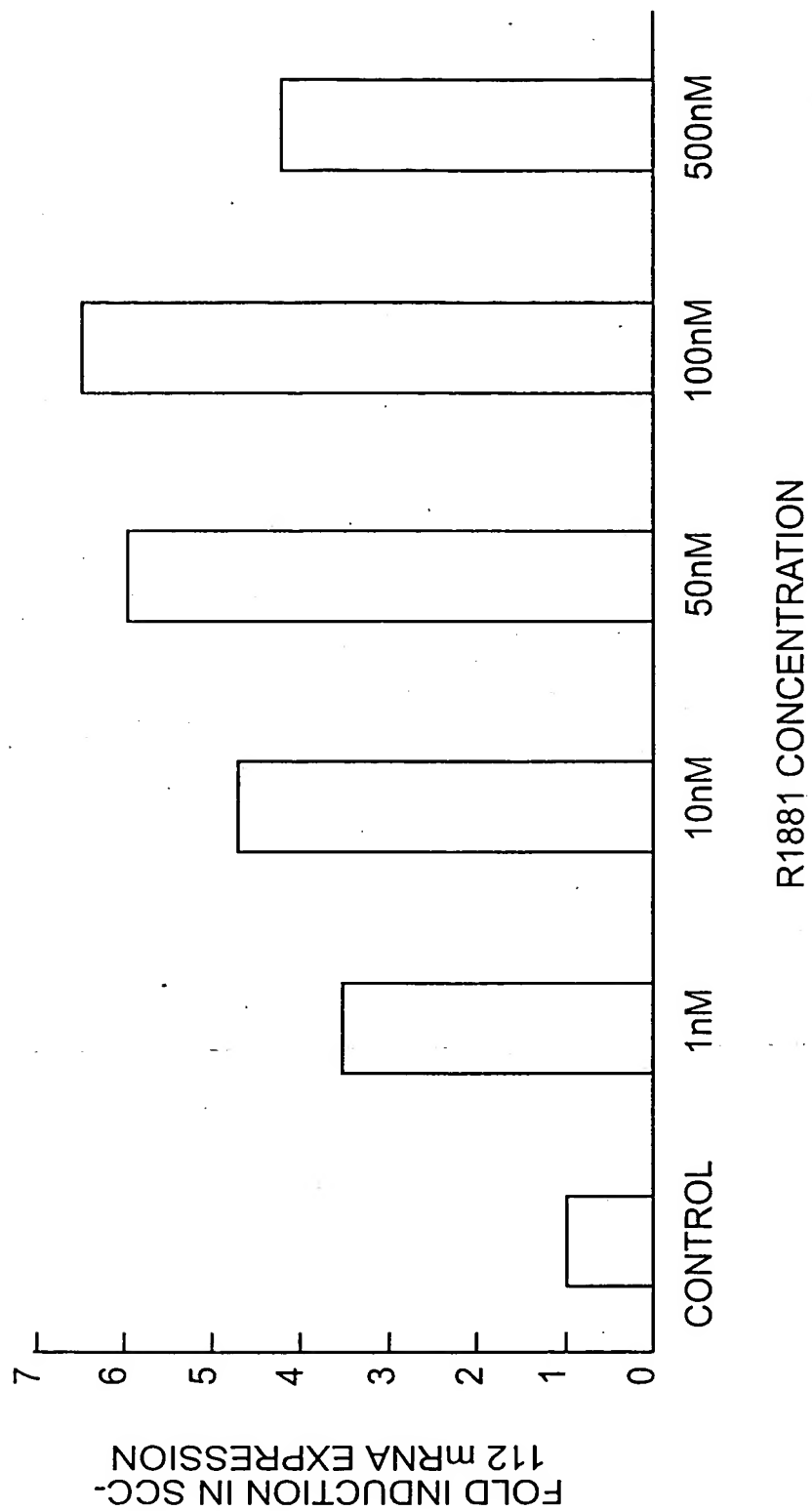
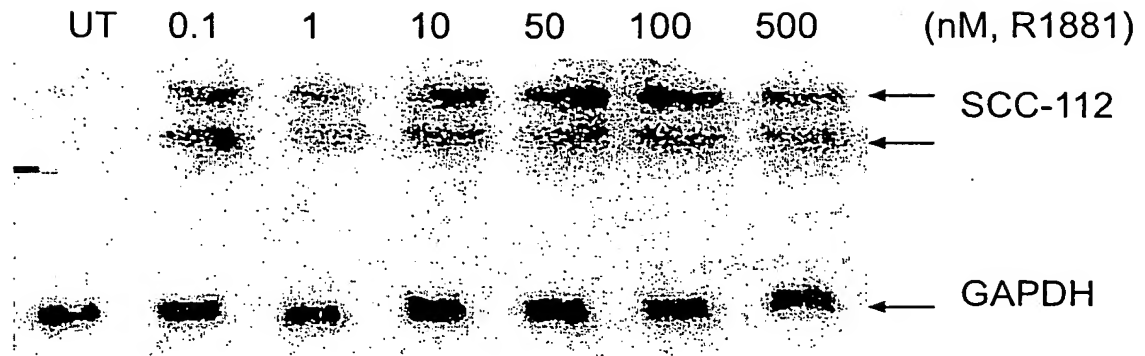
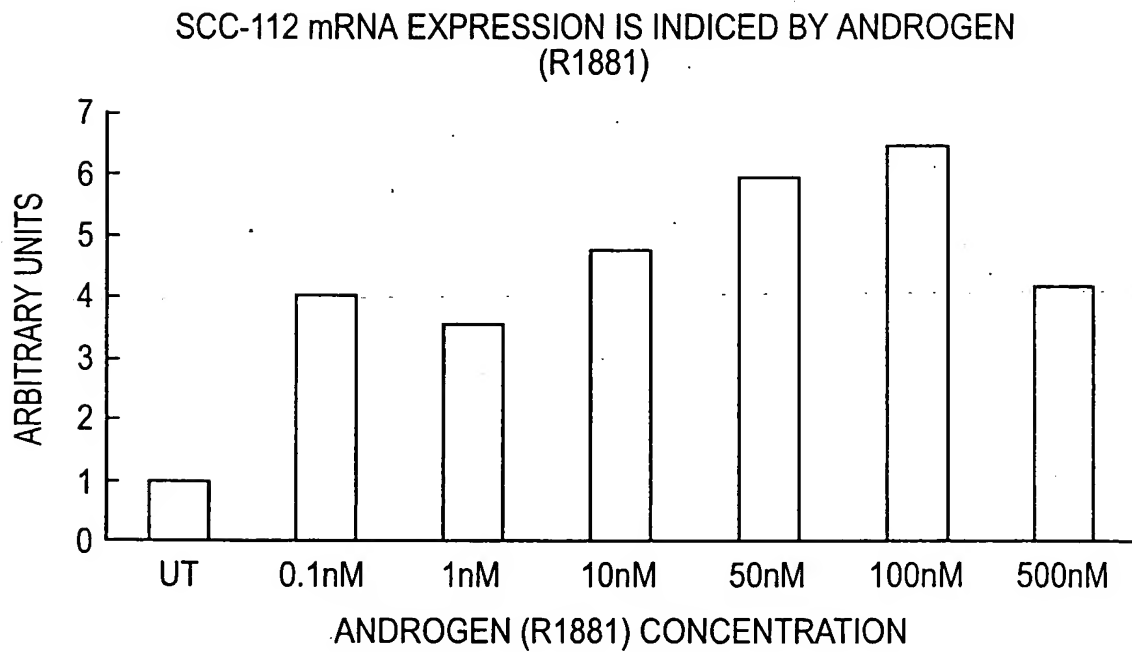


FIG. 5

**FIG. 6A****FIG. 6B**

A549 CELLS

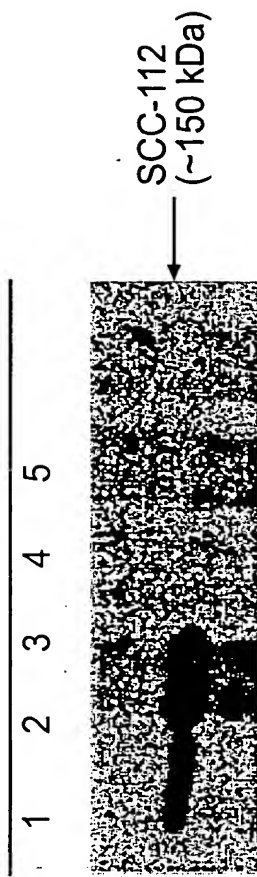


FIG. 7A

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Aspc1	Colo-357	PC-3	MDA-MB 435
C T C T C T	C T C T C T	C T C T C T	C T C T C T

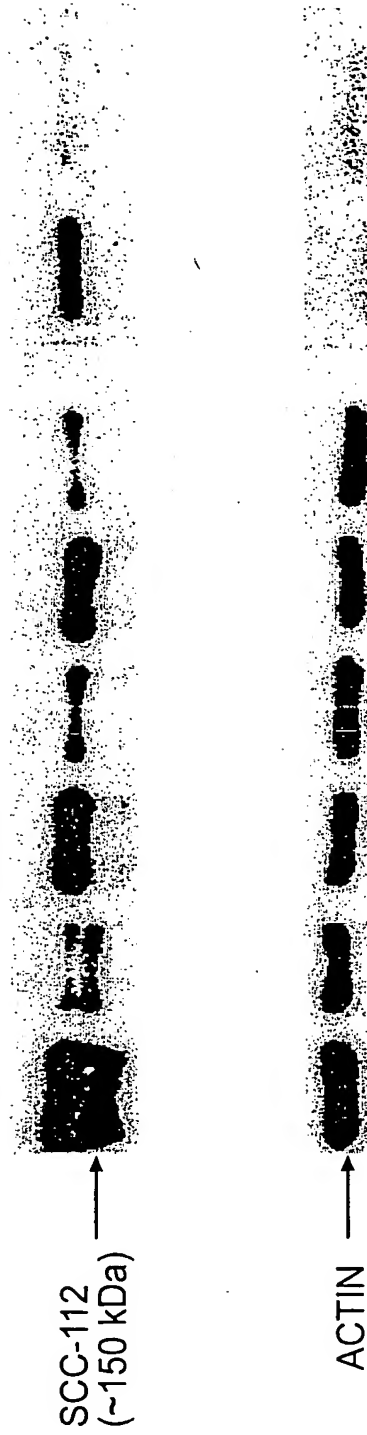
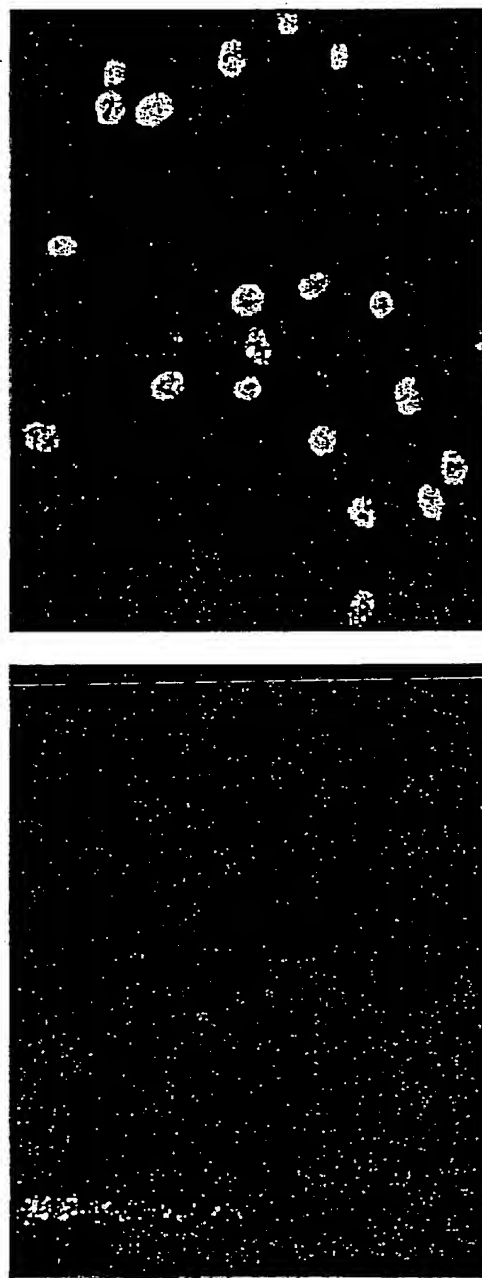


FIG. 7B



ANTI-SCC-112 ANTIBODY

DAPI

FIG. 7C

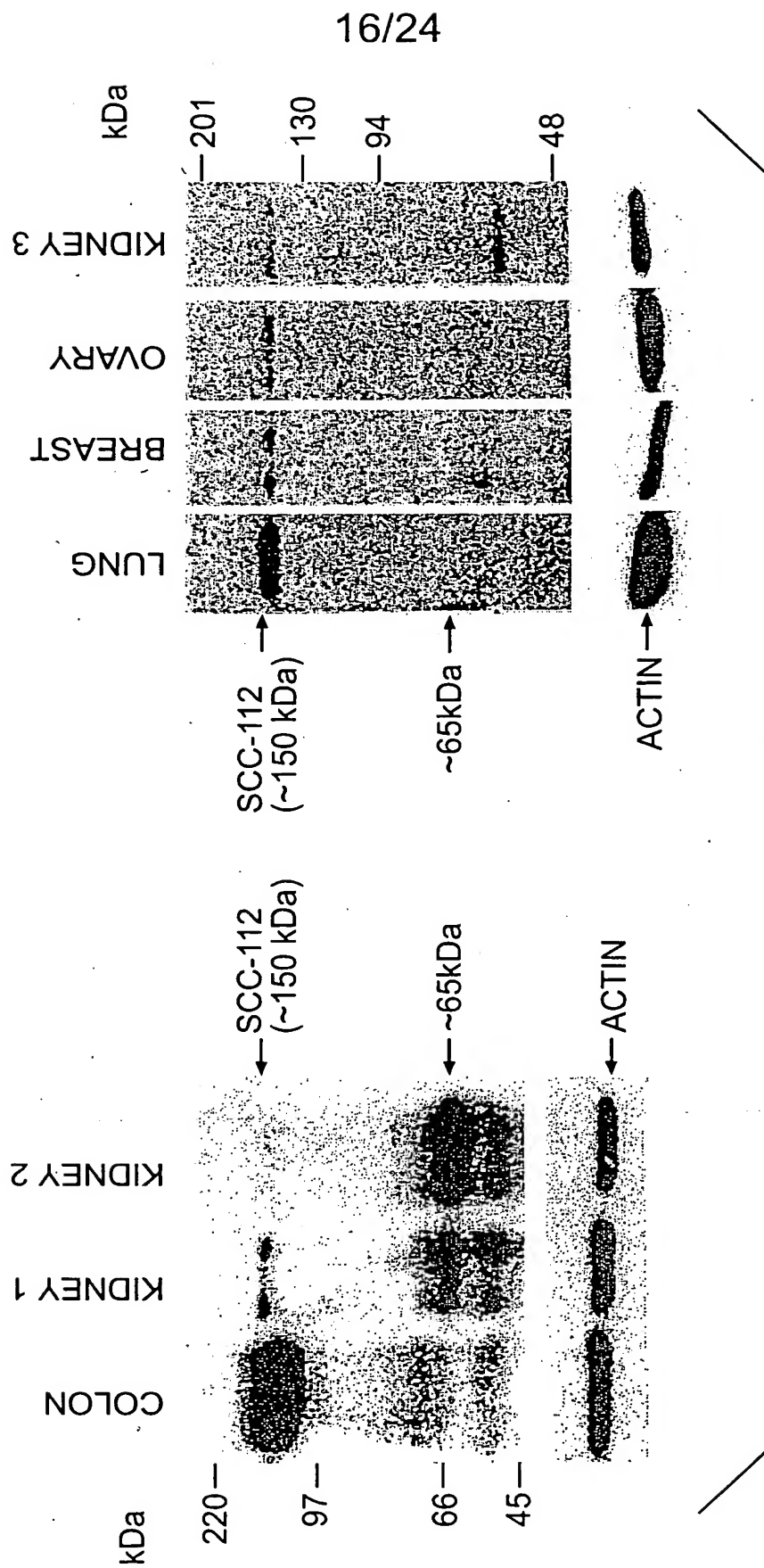


FIG. 7D

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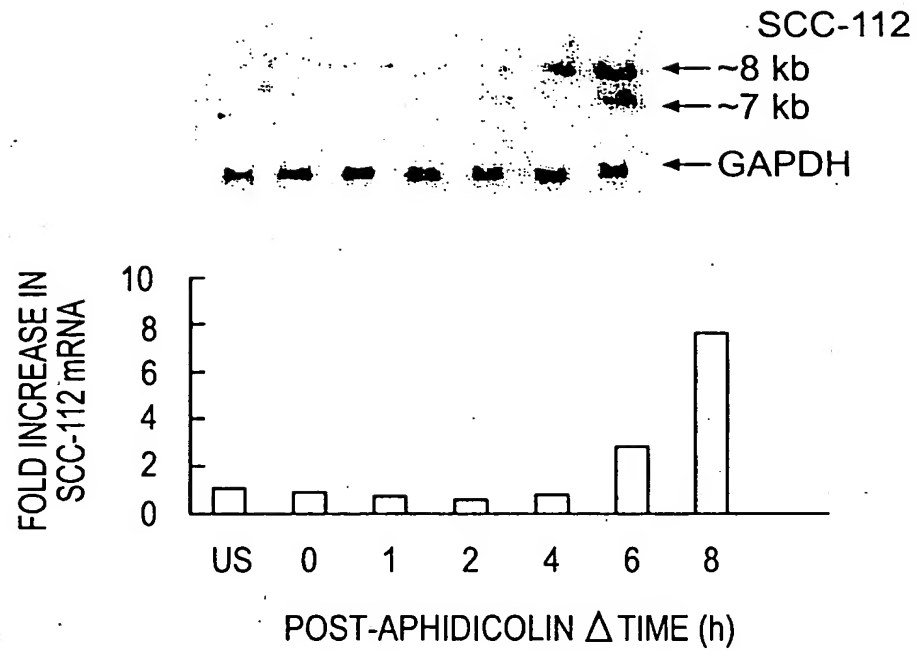


FIG. 8A

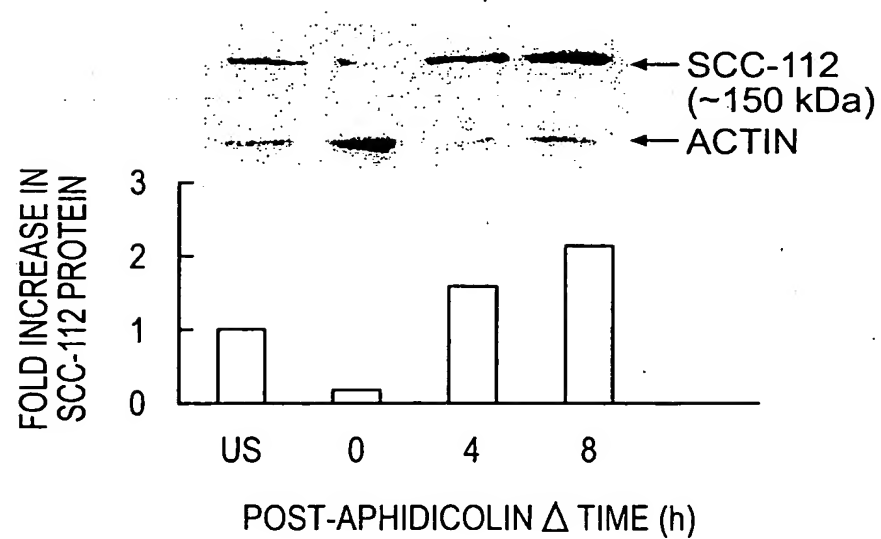


FIG. 8B

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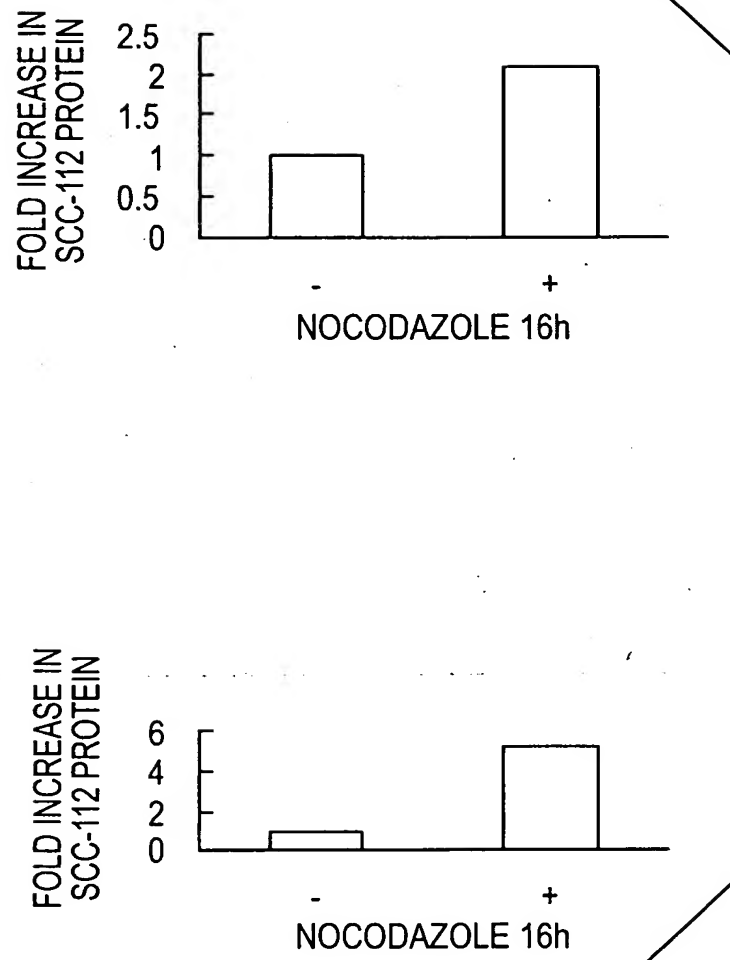


FIG. 8C

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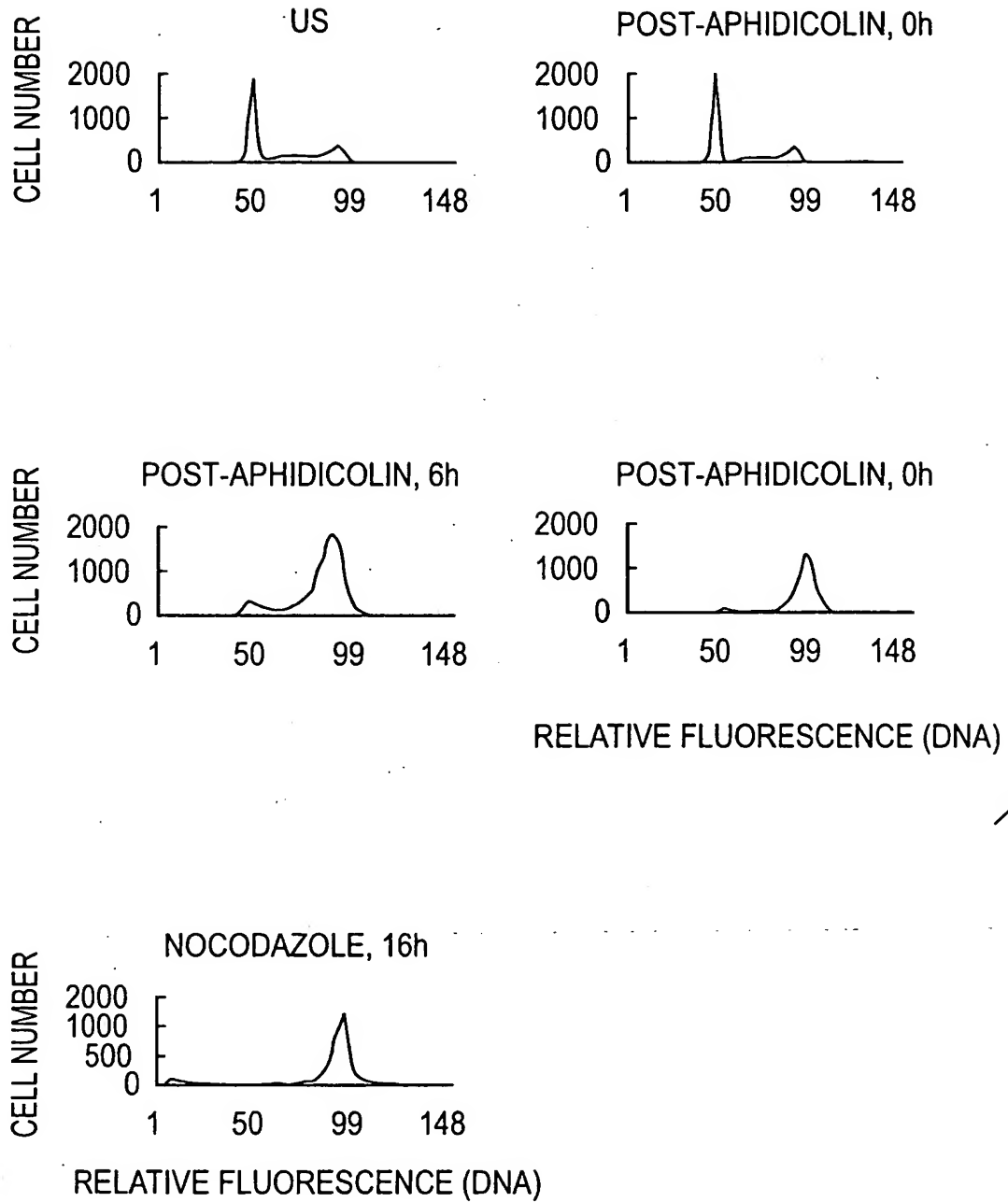


FIG. 8D



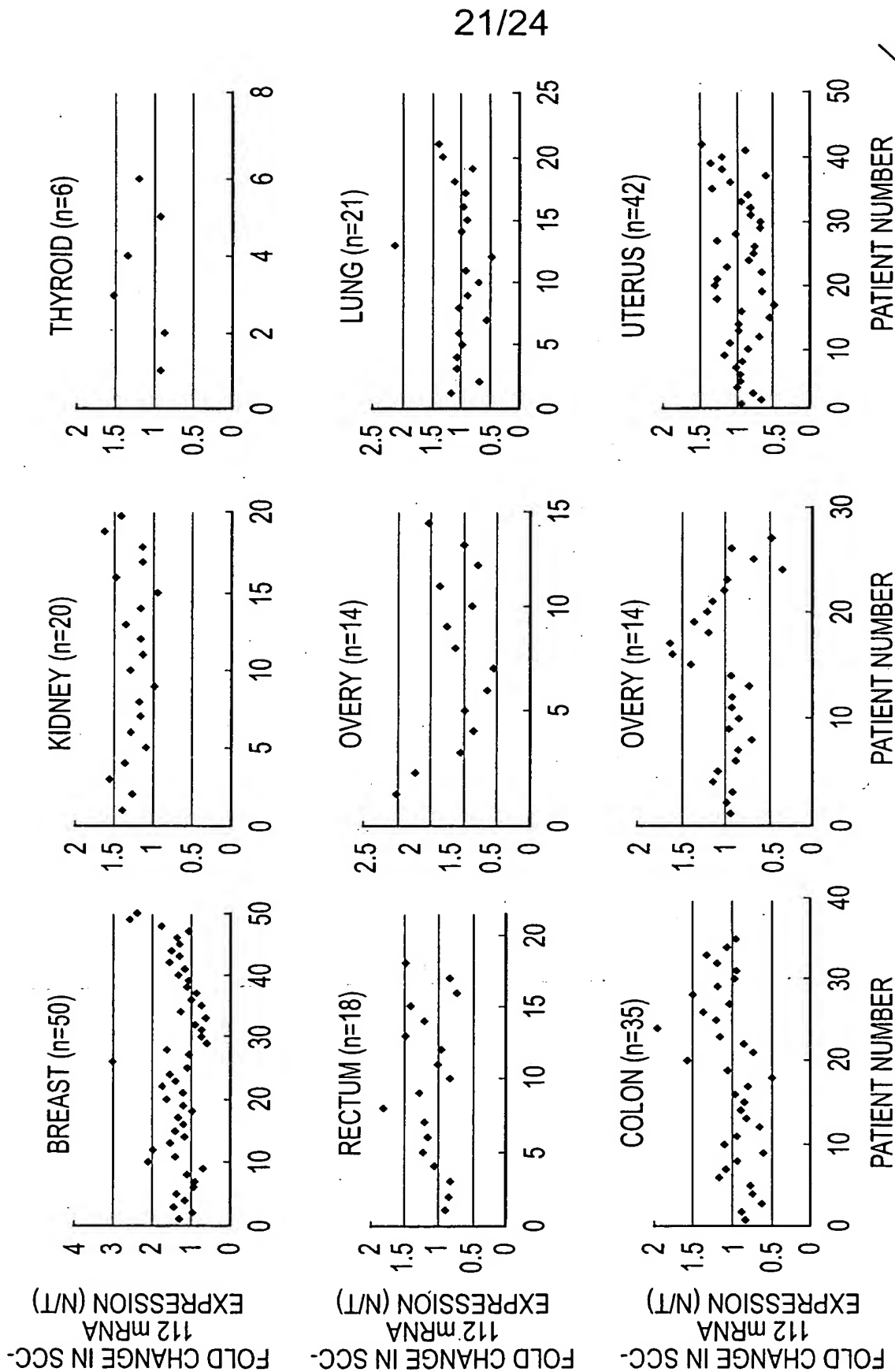


FIG. 9B

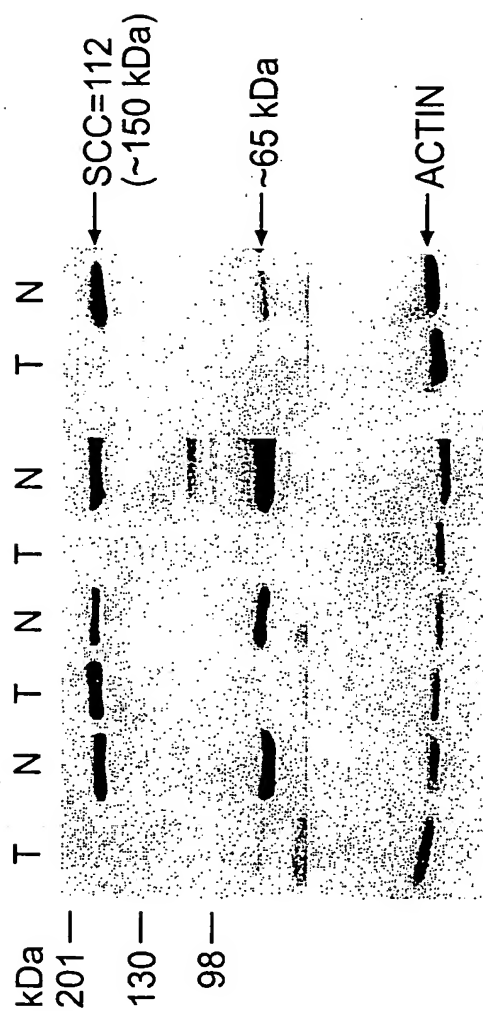


FIG. 10

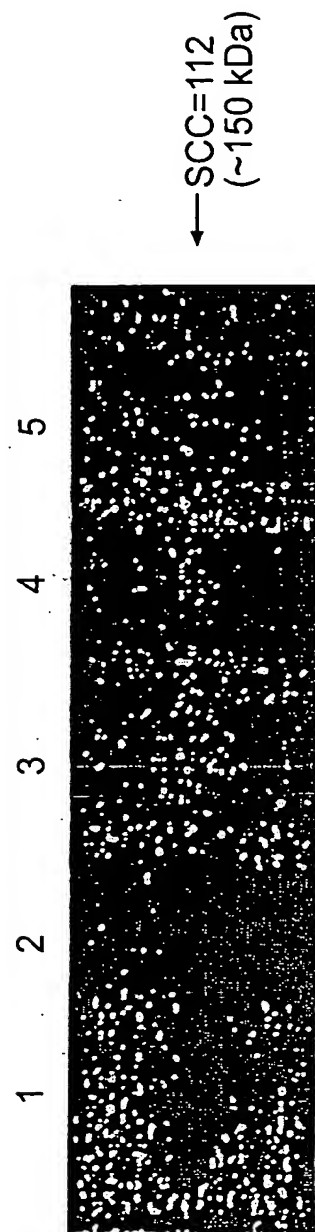
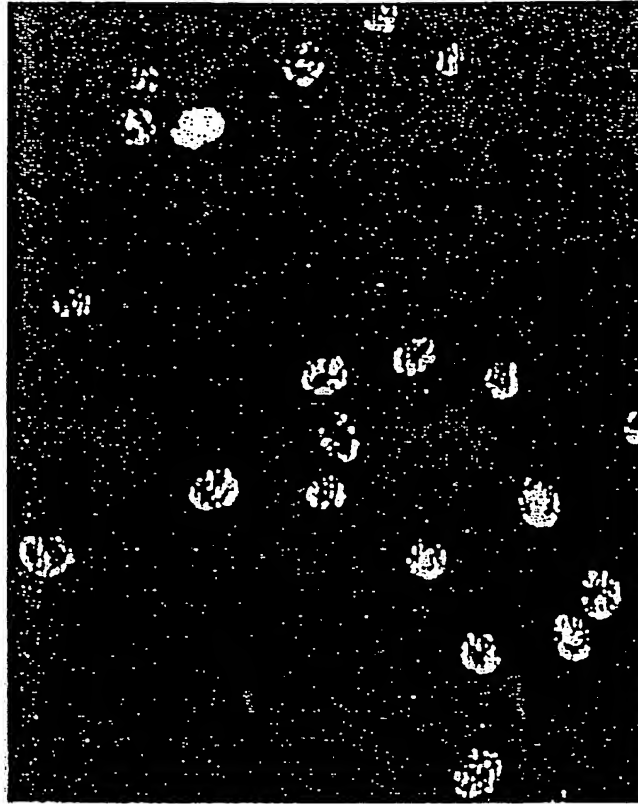
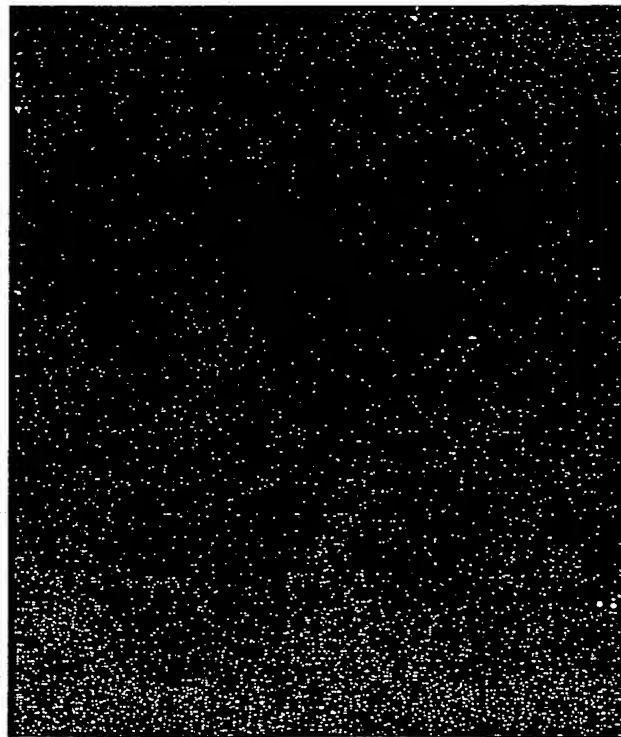


FIG. 11

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DAPI



α -SCC-112

FIG. 12

TUMOR TYPE	NUMBER OF PATIENTS (n)	MEAN N/T* (LOGRATIO)	MEAN N/T* (RATIO)	STANDARD ERROR (LOGRATIO)	95% CONFIDENCE INTERVAL (LOGRATIO)	95% CONFIDENCE INTERVAL (RATIO)	P VALUE (TWO-SIDED)
KIDNEY	20	0.20	1.22	0.03	(0.13, 0.26)	(1.14, 1.30)	<0.0001
BREAST	50	0.20	1.22	0.05	(0.10, 0.29)	(1.11, 1.34)	<0.0001
RECTUM	18	0.11	1.11	0.07	(-0.04, 0.25)	(0.96, 0.25)	0.13
THYROID	6	0.10	1.10	0.10	(-0.15, 0.35)	(0.86, 1.42)	0.35
OVARY	14	0.05	1.05	0.10	(-0.16, 0.26)	(0.85, 1.30)	0.63
LUNG	21	-0.05	0.95	0.07	(-0.19, 0.10)	(0.83, 1.10)	0.50
COLON	35	-0.06	0.94	0.05	(-0.16, 0.04)	(0.86, 1.04)	0.25
STOMACH	27	-0.08	0.92	0.07	(-0.22, 0.06)	(0.81, 1.06)	0.25
UTERUS	42	-0.10	0.90	0.04	(-0.19, 0.01)	(0.82, 0.99)	0.02

FIG. 13